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ning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF PREPARING FEEDER CELLS-FREE, XENO-FREE HUMAN EMBRYONIC STEM CELLS AND
STEM CELL CULTURES PREPARED USING SAME

(57) Abstract: The present invention is of methods of establishing and propagating human embryonic stem cell lines using feeder
cells-free, xeno-free culture systems and stem cells which are capable of being maintained in an undifferentiated, pluripotent and
proliferative state in culture which is free of xeno contaminants and feeder cells.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL03/01030

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 5/00, 5/02

US CL : 435/325, 405

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/325, 405

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
60/433,619

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, Medline, PALM

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GOLDSBOROUGH ET AL. Serum-free culture of murine embryonic stem cells Focus, 1998 Vol 20, No. 1, pages 9-12, entire reference for culture conditions for mice.	1-152
Y, E	AMIT ET AL. Feeder layer- and serum-free culutre of human embryonic stem cells, Biol. of Reprod, 2004, Vol. 70, pages 837-845, entire reference for specifics demonstrated to work for human and mouse ES cells.	1-152
Y, P	AMIT ET AL. Human feeder layers for human embryonic stem cells, Biol. of Reprod, 2003, Vol. 68, pages 2150-2156, entire reference.	1-152
Y, P	PEI ET AL. Serum free culture of rhesus monkey embryonic stem cells, Arch. Androl., 2003, Vol. 49, pages 331-342, entire reference for similarity of culture conditions among other primates.	1-152
Y	MURDOCH ET AL. Human embyronic derived hematopoietic repopulating cells require distinct factors to sustain in vivo repoplatng function, Exp. Hematol, 2002, Vol 30, pages 598-605, for culture conditions of pluripotent cells.	1-152



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INTERNATIONAL SEARCH REPORT

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	AMIT ET AL. Clonially derived human embryonic stem cell lines maintain pluripotency and proliferative potential for prolonged periods of culture, Dev. Biol. 2000, Vol 227, pages 271-278, entire references for conditions required by human embryonic stem cells.	1-152